

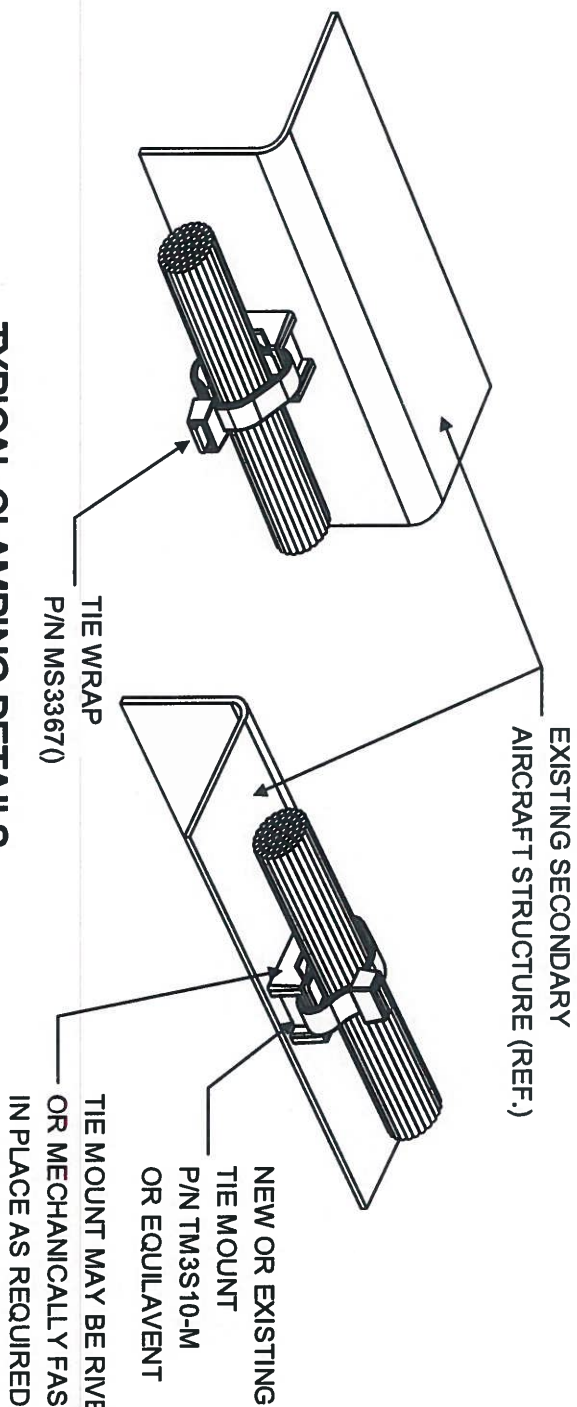
Installation Notes:

1. Document must be printed in color.
2. Install, secure, and maintain separation of wiring in accordance with Cessna standard wiring practices manual Chapter 20. Where no other reference exist, use methods as described in this document. The typical clamping details as described on page 2 and page 3 of this document may be used. Where possible, maintain original Cessna wire routing design and philosophy.
3. Maintain a minimum of 6 Inches separation distance from all critical Fuel Quantity Indicating System (FQIS) wiring. Where 6 Inches cannot be maintained, a minimum of 2 Inches must be maintained and rigidly supported and tied at intervals such that contact with the FQIS wiring would not occur assuming a broken wire and a missing wire tie or clamp.
4. If the separation requirements of Installation Note 2 are not achievable in certain areas of the aircraft, then route all wires in those areas inside a protective sleeving (p/n ROUNDIT 2000 NX 5-5 OR equivalent). If the separation between FQIS wiring is less than 2 Inches, but greater than 1.0 Inch, then apply protective sleeving to either the new wiring or the FQIS wiring, not both. If the separation is less than 1.0 Inch, then apply protective sleeving to both new wiring and FQIS wiring.
5. RF coax cable must be separated from all aircraft harnesses. Coaxial cable may be secured to the existing bundle, provided that the coax is separated from the main harness with closed cable tie connector rings (p/n CR4H-M/CR2-M) as applicable. Ensure that coaxial cable is bent at a radius of no less than 6 times (6X) the outside diameter of the cable. Ensure that the existing wiring being followed meets the separation requirements of Installation Note 2.
6. Refer to Silverhawk Aviation drawing no. 17-23089-1 for complete details on electrical integration of wiring to aircraft.

		Silverhawk Aviation Inc. KLNK 1751 West Kearney Ave. Lincoln, NE 68524	
ENGINEER: CJH		DATE: 4/30/2018	
CHECKED:		TITLE: GOGO AVANCE IN-FLIGHT ENTERTAINMENT AND WIFI CONNECTIVITY SYSTEM	
APPROVED:		DWG NO. 17-23089-WR	
Rev. 1 R		CRS# YOSR759U	
SHEET: 1 OF 4			
AIRCRAFT MAKE: CESSNA MODEL: CITATION 560 (CITATION V, ULTRA, ENCORE, ENCORE PLUS)			
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1	2	3	4	5	6	7	8	9	10	11	12
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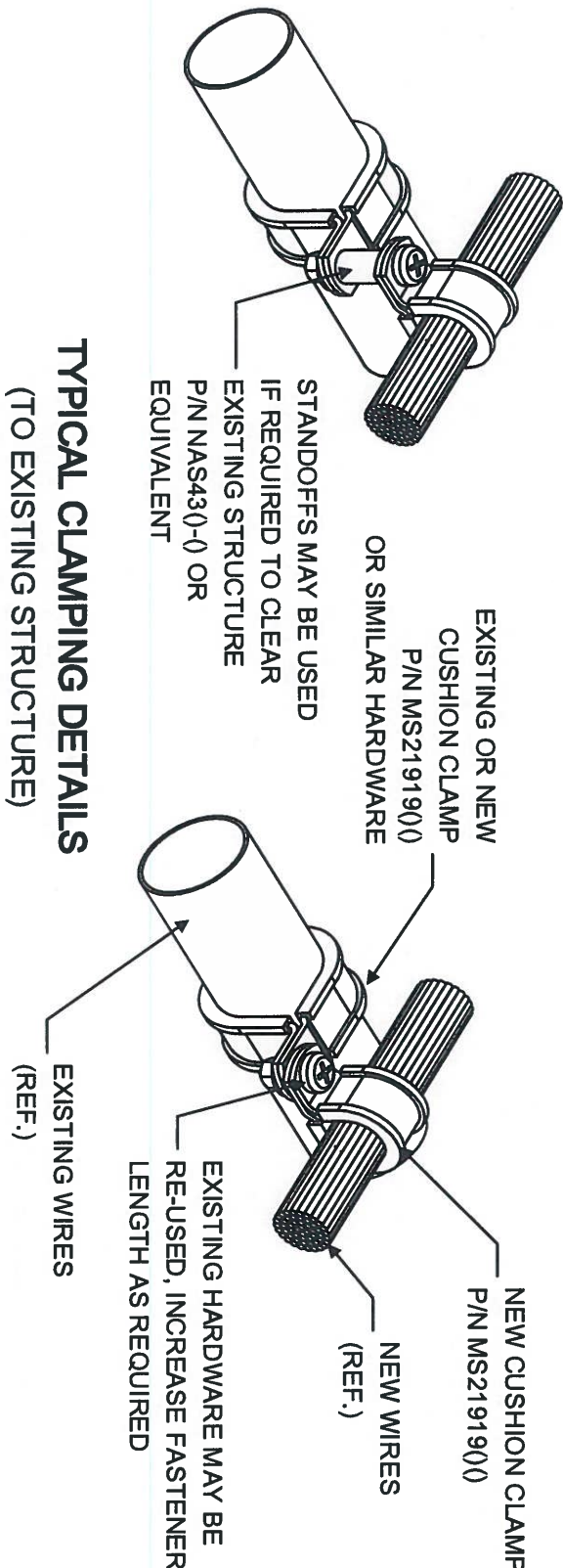
WIRE ROUTING DETAIL



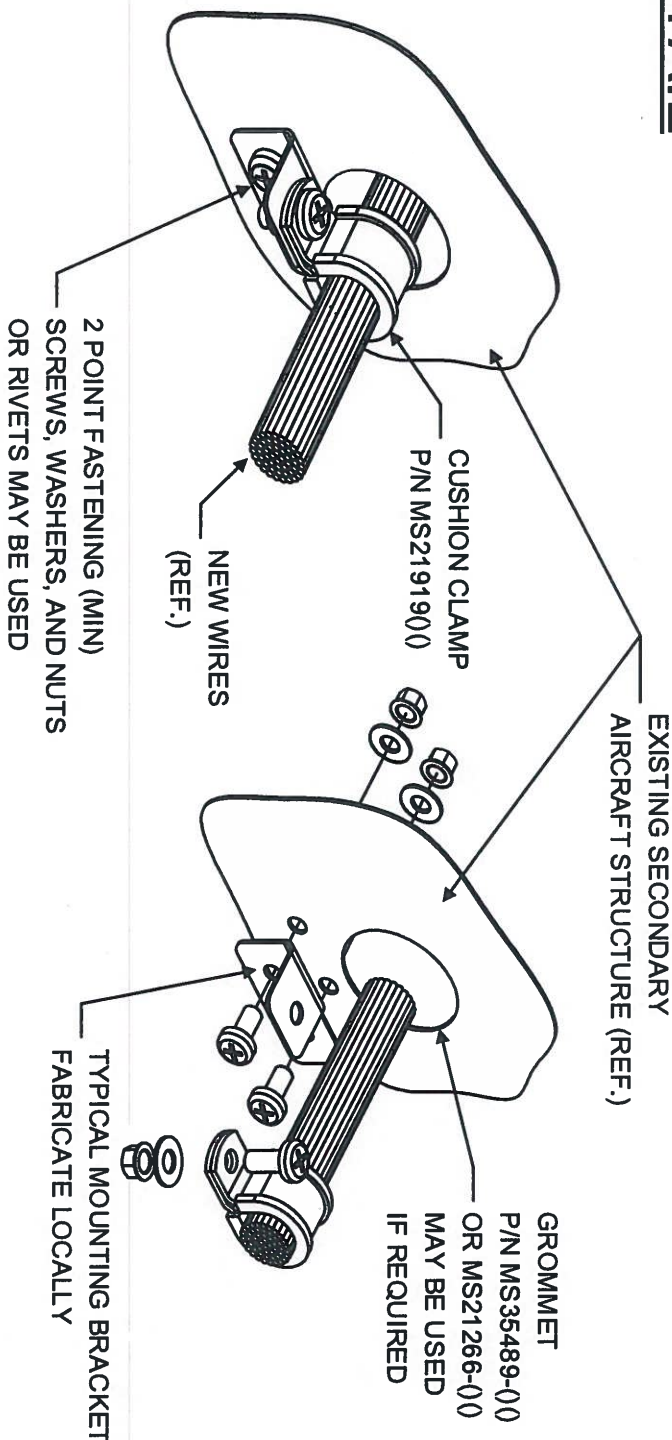
TYPICAL CLAMPING DETAILS (TO EXISTING STRUCTURE)



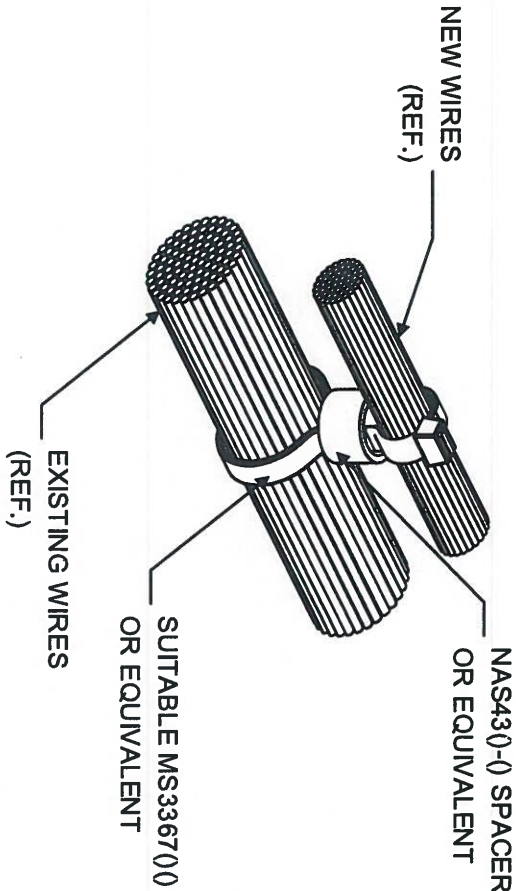
TYPICAL CLAMPING DETAILS (TO EXISTING STRUCTURE)



TYPICAL CLAMPING DETAILS (TO EXISTING STRUCTURE)



TYPICAL CLAMPING DETAILS (THROUGH BULKHEAD)



TYPICAL CLAMPING DETAILS (TO EXISTING WIRING)

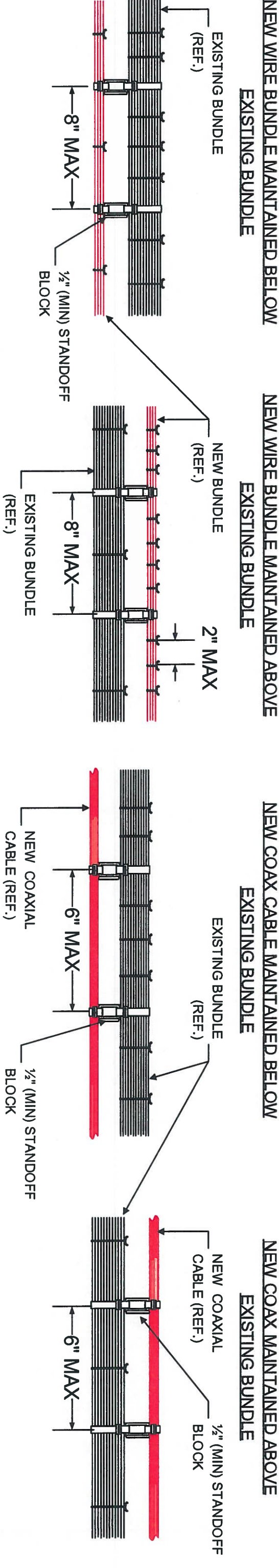
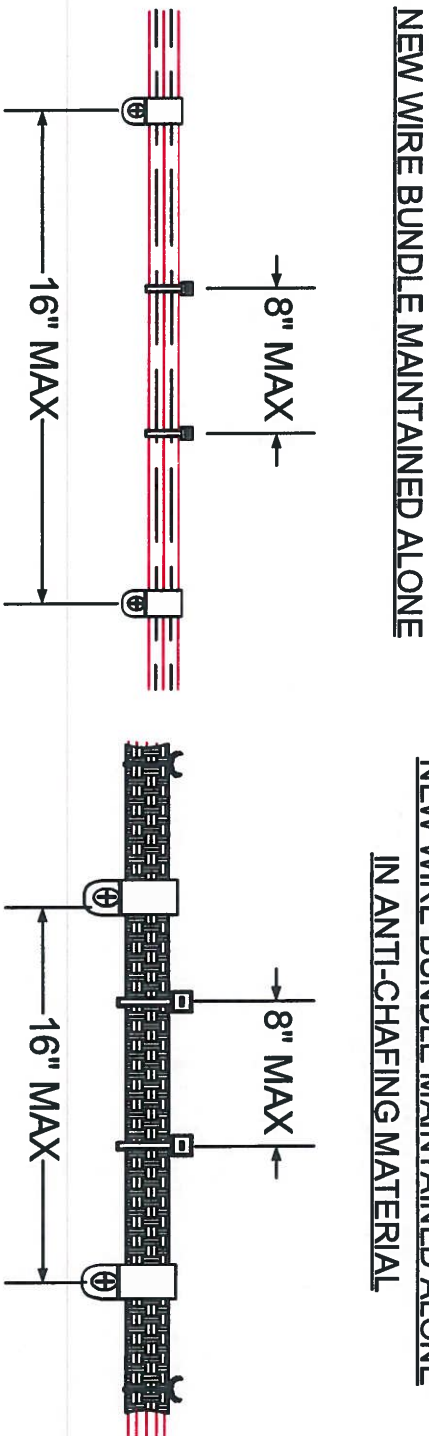
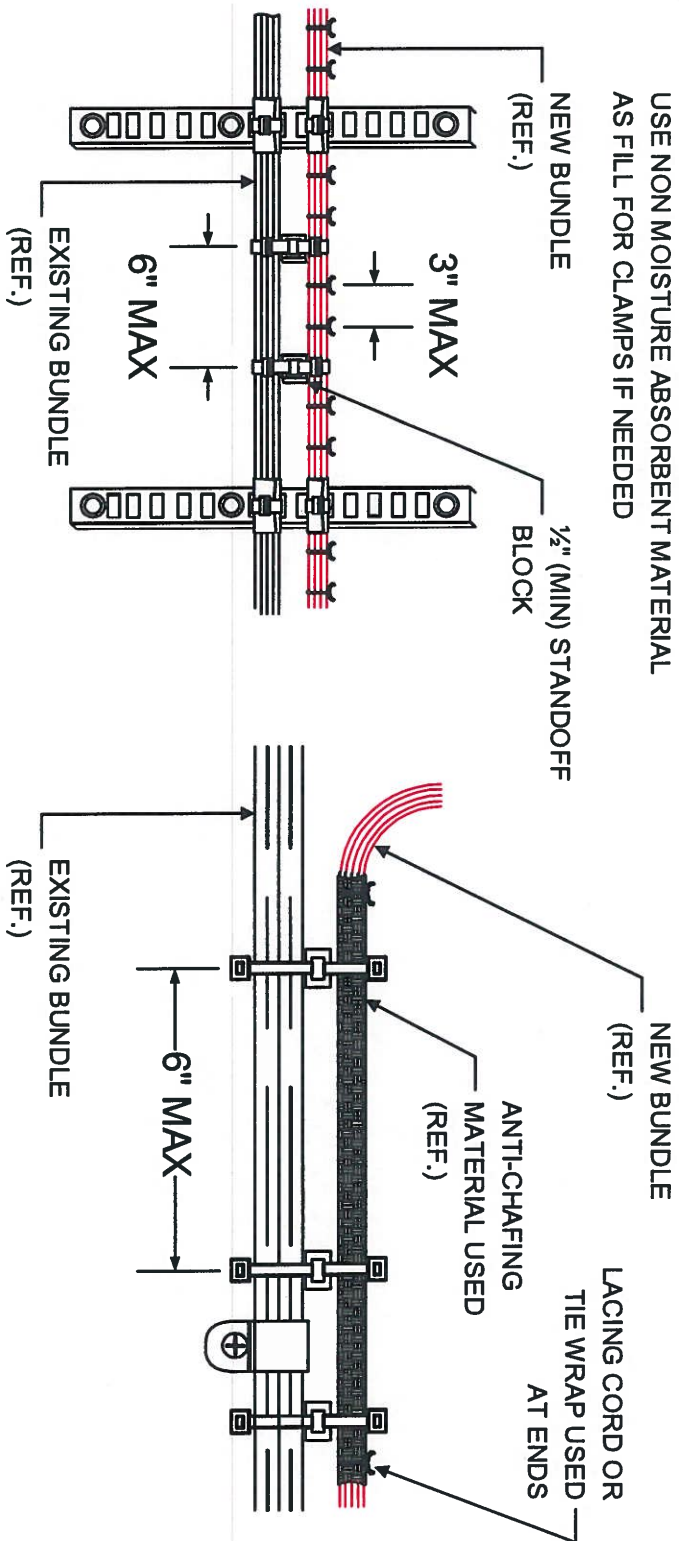
Installation Notes:

SYSTEMS WIRING MAY USE ANY OF THE ABOVE LISTED CLAMPING DETAILS AS APPLICABLE FOR INSTALLATION. ENSURE THAT THE EXISTING WIRING BEING FOLLOWED MEETS THE SEPARATION REQUIREMENTS OF NOTE 2 (PAGE 1).

		Silverhawk Aviation Inc. KLNK 1751 West Kearney Ave. Lincoln, NE 68524	
DESIGNER: CJH	DATE: 4/30/2018	TITLE: GOGO AVANCE IN-FLIGHT ENTERTAINMENT AND WIFI CONNECTIVITY SYSTEM	
CHECKED:		DWG NO. 17-23089-WR	
APPROVED:	Rev. 1R	CRS# YOSR759U	SHEET: 2 of 4
AIRCRAFT MAKE: CESSNA		MODEL: CITATION 560 (CITATION V, ULTRA, ENCORE, ENCORE PLUS)	

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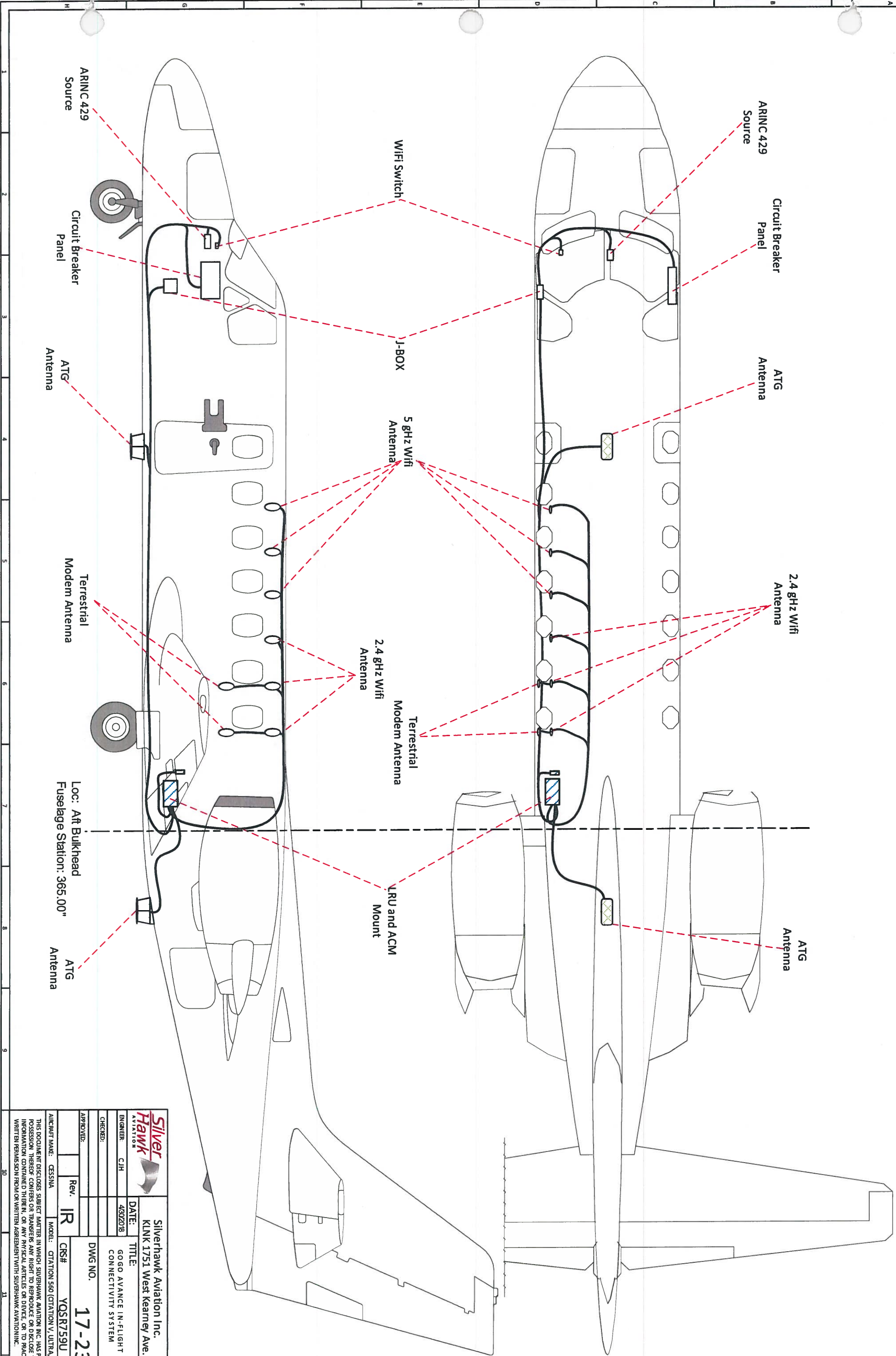
WIRE ROUTING DETAIL



CLAMPING AND SUPPORTING WITH "D" BLOCKS TO EXISTING BUNDLE WHERE IDEAL SEPARATION CANNOT BE MAINTAINED.

Installation Notes:

SYSTEMS WIRING MAY USE ANY OF THE ABOVE LISTED WIRE ROUTING DETAILS AS APPLICABLE FOR INSTALLATION. ENSURE THAT THE EXISTING WIRING BEING FOLLOWED MEETS THE SEPARATION REQUIREMENTS OF NOTE 2 (PAGE 1).



		Silverhawk Aviation Inc. KLNK 1751 West Kearney Ave. Lincoln, NE 68524	
ENGINEER	CIH	DATE:	4/30/2018
CHECKED:		TITLE:	GOGO AVANCE IN-FLIGHT ENTERTAINMENT AND WIFI CONNECTIVITY SYSTEM
APPROVED:		DWG NO.	17-23089-WR
Rev.	IR	CRS#	YOSR759U
AIRCRAFT MAKE:	CESNA	MODEL:	CITATION 560 (CITATION V, ULTRA, ENCORE, ENCORE PLUS)
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- Installation Notes:

1. All wire and wire routing in accordance with AC43-13-1B Chapter 11 and component manufacture Recommendations.

2. All shielded wire to be MIL-C-27500 or equivalent. Non-shielded wire to be MIL-W-22759/16 or equivalent unless otherwise noted.

3. All Ethernet cable to be PLC p/n E51424 or equivalent unless otherwise noted.

4. All Coax cable to be ECS p/n 311201 or equivalent unless otherwise noted.

5. All wires are 22 AWG unless otherwise noted.

6. All diodes are 1N4007 unless otherwise noted.

1. Total cumulative length of IEEE402A24 USB Cable shall not exceed 17 feet maximum length

2. OPTIONAL CONNECTION – Use any available open pin listed for connection to 28/14V ANNUNCIATOR POWER.

3. OPTIONAL CONNECTION – Use any available open pin listed for connection to ANNUNCIATOR TEST GND OUT.

4. OPTIONAL CONNECTION – Use any available open pin listed for connection to GROUND ON GROUND.

5. OPTIONAL CONNECTION: Use any available open pin.

6. Bus to existing load shed capable entertainment bus located A-FT interior J box.

7. Applicable to Avance L5/L5i installations ONLY.

8. Applicable to Avance L3 installations ONLY.

9. OPTIONAL CONNECTION – Use any available ARINC connection available on aircraft.

10. Verify ARINC output offers sufficient data in accordance with Installation Instructions.

11. Default ARINC 429 inputs on Port 1. Wire according to aircraft equipment available.
- | | | | | |
|------|------------------------|-----|---|-------------------|
| 26 | GoGo Biz | 2 | ATG 3G Antenna (Ci-5500 for L3 Install Only) | P12949 |
| 25 | TE Connectivity | 1 | Cabin Entertainment Relay | FCA125-34 |
| 24 | Vivisun | 1 | Switch, Panel Mount, DPDT, Annunciator | 95-52-14-E6-E28DA |
| 23 | Vivisun | 1 | Switch, Panel Mount, DPDT, Annunciator | 95-52-14-E6-E28DB |
| 22 | ITT Cannon | A/R | 9/37 pin Clip with Long Screw | D20419-16 |
| 21 | ITT Cannon | A/R | Screw and Hex Nut assembly | D20418-2 |
| 20 | ECS | 32 | TNC coax connector, Straight | CTS122 |
| 19 | ECS | A/R | TNC coax connector, 90 deg (ALTERNATE) | CTR122 |
| | | | SMA coax connector, Straight | CSS122 |
| 18 | Pasternack Enterprises | 8 | SMA coax connector, 90 deg (ALTERNATE) | CSR122 |
| | | | TNC Male to TNC Female Extension | PE9270 |
| 17 | Pasternack Enterprises | 8 | SMA Female to SMA Female Adapter, Standard | PE9070 |
| 16 | AMP | 2 | Backshell Strain Relief, 9 pin | 5207908-1 |
| 15 | TE Connectivity | 1 | Connector, 9 pin receptacle (female) | 205203-8 |
| 14 | TE Connectivity | 1 | Connector, 9 pin plug (male) | 205204-9 |
| 13 | AMP | 2 | Backshell Strain Relief, 15 pin | 5207908-4 |
| 12 | TE Connectivity | A/R | Contact, socket (female) | 205090-1 |
| 11 | TE Connectivity | A/R | Contact, pin (male) | 205089-1 |
| 10 | TE Connectivity | 1 | Connector, 15 pin receptacle (female) | 205205-7 |
| 9 | TE Connectivity | 1 | Connector, 15 pin plug (male) | 205206-9 |
| 8 | L-Com | 1 | Type A USB Panel Mount with Wire Leads | ECJ504B-UA |
| 7 | L-Com | 1 | RJ45 Panel Mount with Wire Leads | ECJ504-8 |
| 6 | Klixon | 2 | Circuit Breaker, 10 Amp | 7277-2-10 |
| 5 | GoGo Biz | 2 | TM Antenna | P18350-001 |
| 4 | GoGo Biz | 6 | WiFi Antenna | P16917-001 |
| 3 | GoGo Biz | 2 | ATG4G 900 MHz Quad Mode Antenna | P35500 |
| 2 | GoGo Biz | 1 | Configuration Module | P14126 |
| 1 | GoGo Biz | 1 | Avance L5/L5i/L3 Air-To-Ground 4G Transceiver | P34110-XXX |
| ITEM | VENDOR | QTY | DESCRIPTION | PART NUMBER |
- Existing Wire / Existing Equipment: -----

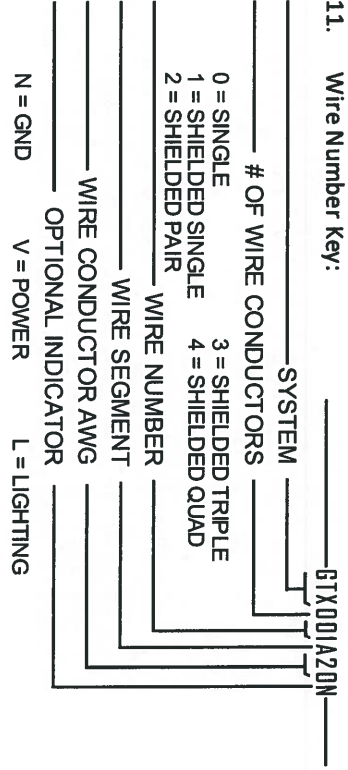
Flag note: 

BOM Item Reference note: 

Information omitted for clarity: 

Cap and Stow wire: 

Relocate wire as shown: 

11. Wire Number Key: 

12. All USB cable to be PLC p/n USB2422 or equivalent unless otherwise noted.

13. Perform EMI/EMC source victim testing in accordance with paragraph 11-107D of AC43.13-1B. Verify that the installed equipment does not interfere with or is not interfered with by any other aircraft system. This testing should include but is not limited to all navigation, flight guidance, auto-pilot and communication systems.



DATE: 5/17/2017

CHECKED: K. GWEH 3/8/2018

APPROVED: 

Rev. C

DWG NO. 17-23089-1

Silverhawk Aviation Inc.
KUNK 1751 West Kearney Ave. Lincoln, NE 68524

ENGINEER: WEI D&K

MODE: CITATION C560

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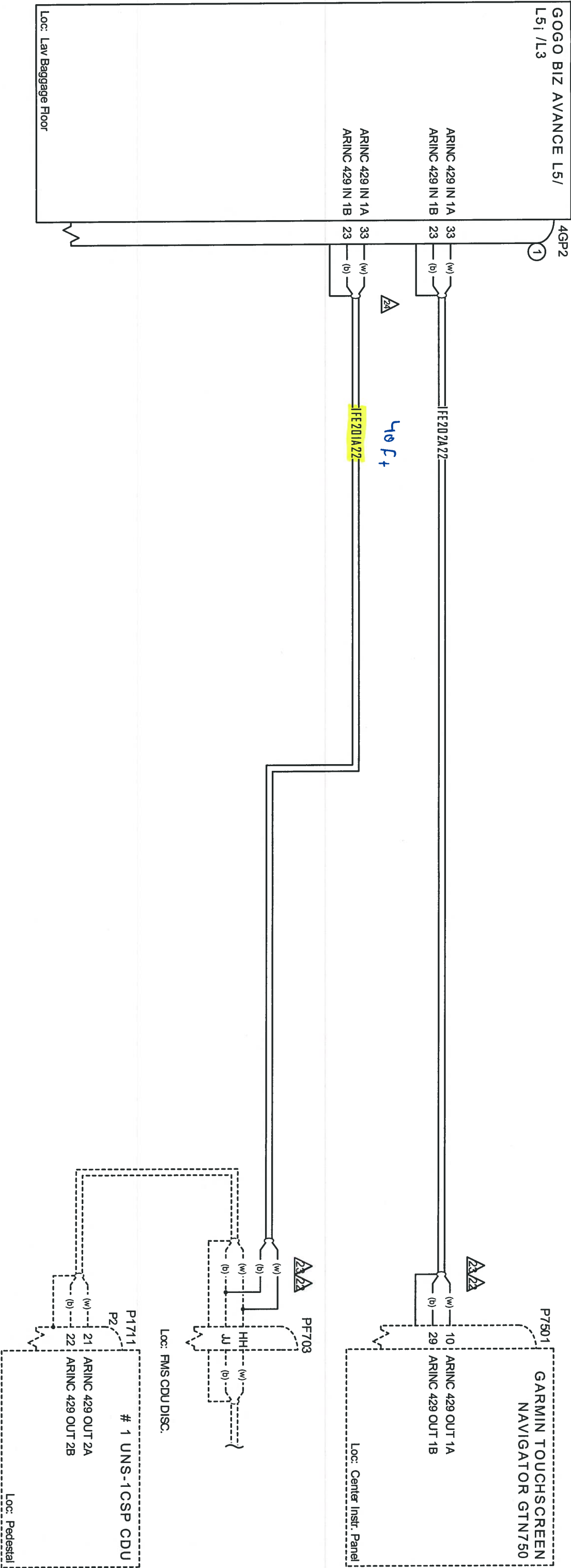
CRS# YOSR759U

SHEET: 1 OF 8

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11

10



ARINC Label Name	Garmin Configuration	Universal Configuration
Attitude	Select Label :76	Select Label : DEFAULT
Attitude Rate	Select Label: 212	Select Label: DEFAULT
Computed Airspeed	Select Label: 206	Select Label: DEFAULT
Time to Go	Change Config to: 352	Change Config to: 352
ETA	Change Config to: Calculated	Change Config to: Calculated

OPTIONAL CONNECTION – Use any available ARINC connection available on aircraft.

Verify ARINC output offers sufficient data in accordance with Installation Instructions.

Default ARINC 429 inputs on Port 1. Wire according to aircraft equipment available.



Silver Hawk
Aviation Inc.

DATE: 5/17/2017

DESIGNER: HET/DELX

CHECKED: K. OWEN

3/8/2018

Silverhawk Aviation Inc.
KLNK 1751 West Kearney Ave. Lincoln, NE 68524

TITLE:
GOGO AVANCE L3/L5/L5i IN-FLIGHT ENTERTAINMENT AND WIFI CONNECTIVITY SYSTEM.

DWG NO.
17-23089-1

APPROVED:

Rev. C

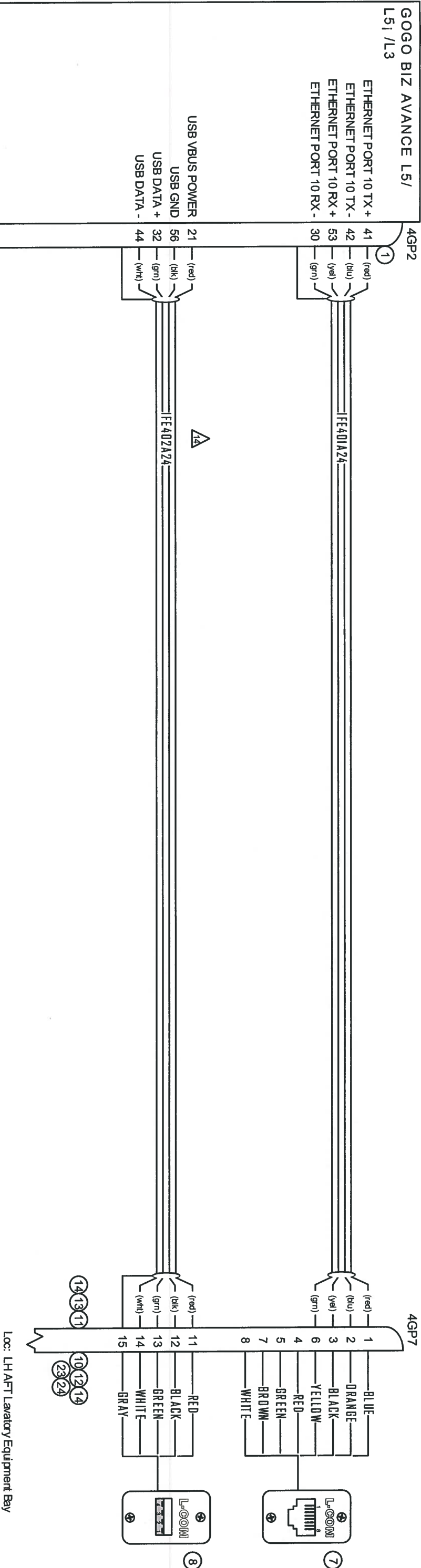
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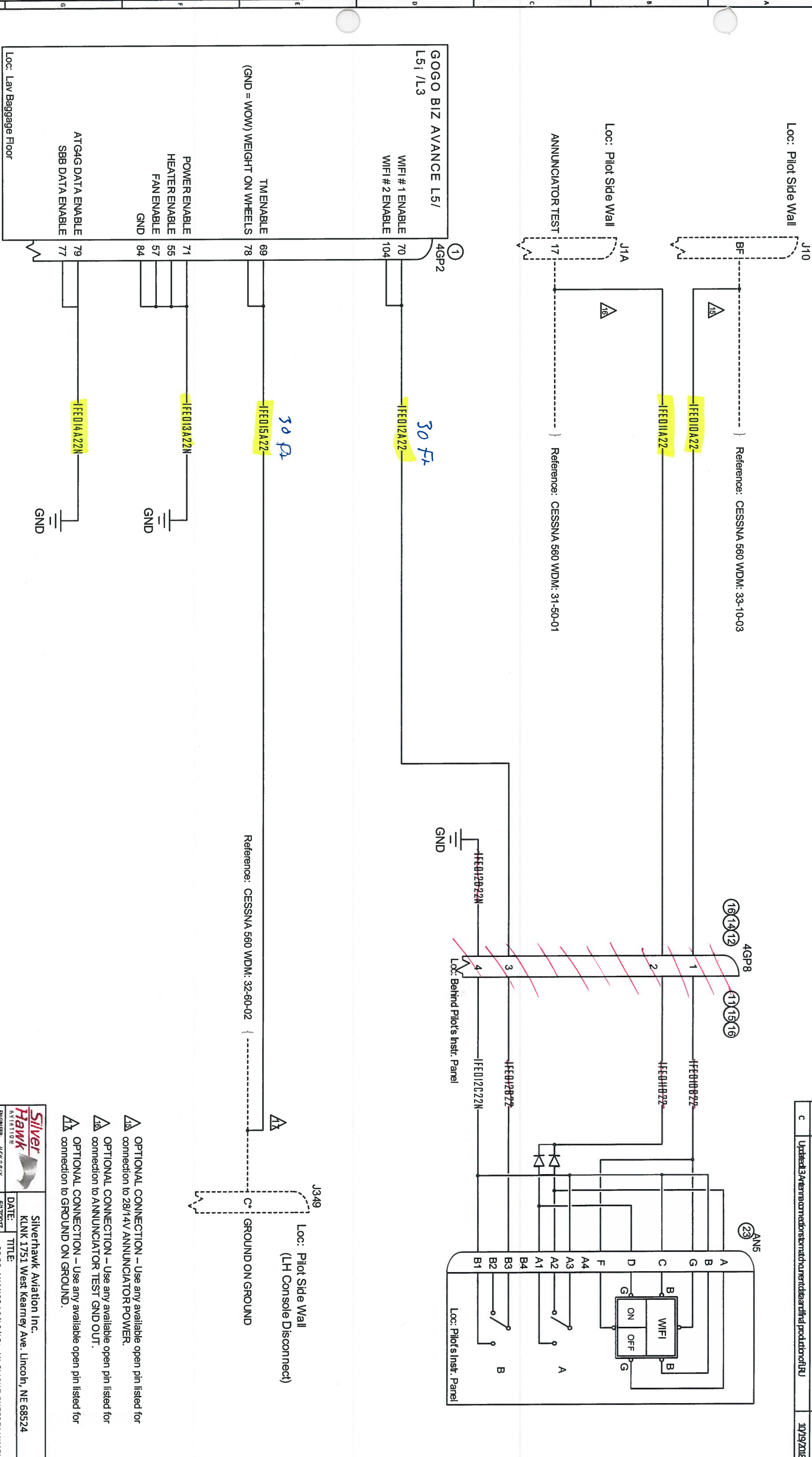
SHEET: 3 OF 8

AIRCRAFT MAKE: CESSNA

MODEL: CITATION C560

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- OPTIONAL CONNECTION – Use any available open pin listed for connection to 28/14V ANNUNCIATOR POWER.
- OPTIONAL CONNECTION – Use any available open pin listed for connection to ANNUNCIATOR TEST GND OUT.
- OPTIONAL CONNECTION – Use any available open pin listed for connection to GROUND ON GROUND.



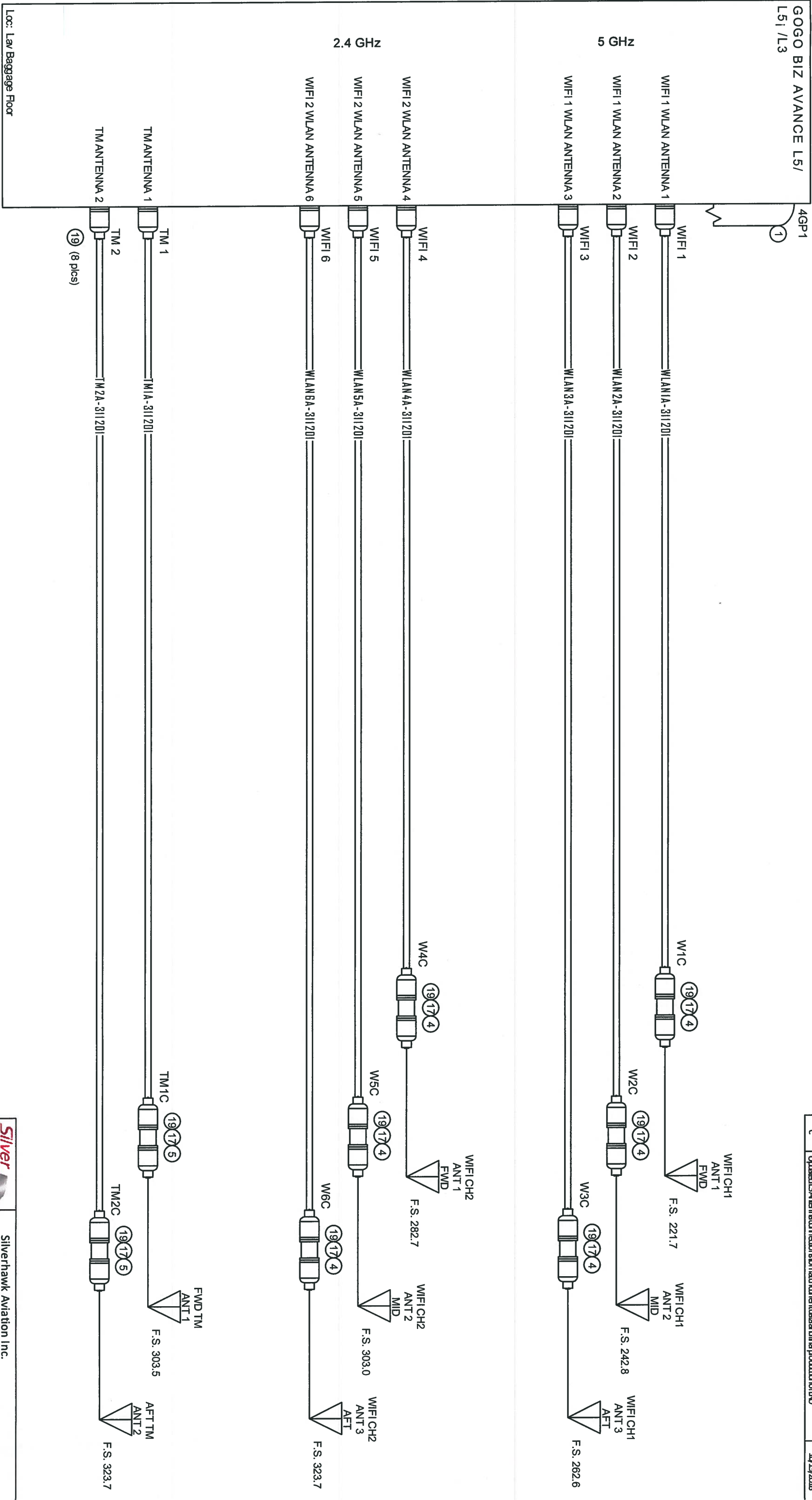
Silverhawk Aviation Inc.
KLNK 1751 West Kearney Ave. Lincoln, NE 68524

DATE:	5/11/10
ENGINEER:	WENDRA
CHECKED:	K. OWEN
APPROVED:	

DWG NO. 17-23089-1	
CRS#	YOSR759U
SHEET:	5 OF 8

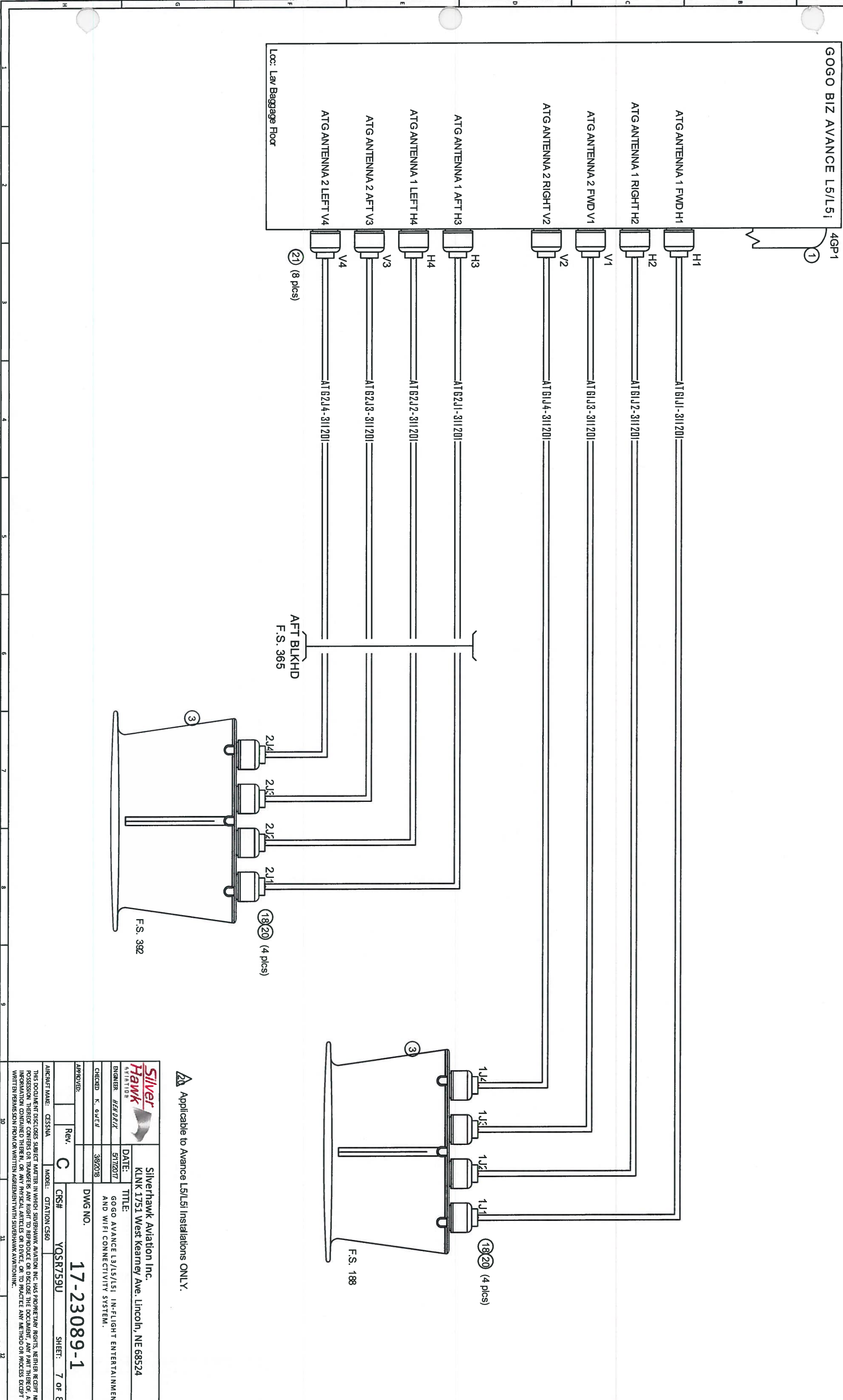
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Rev.	Revision Note:	Date:
C	Updated 3 Antenna connections and antenna identification production of BU	10/19/2018



Silver Hawk 631A110 8E	Silverhawk Aviation Inc. KLNK 1751 West Kearney Ave. Lincoln, NE 68524
ENGINEER: <i>MENDRIX</i>	DATE: 5/17/2017
CHECKED: K. OWEN	3/8/2018
APPROVED:	
Rev. C	DWG NO. 17-23089-1
AIRCRAFT MAKE: CESSNA	MODEL: CITATION CS60
	CRS# YQSR759U
	SHEET: 6 OF 8

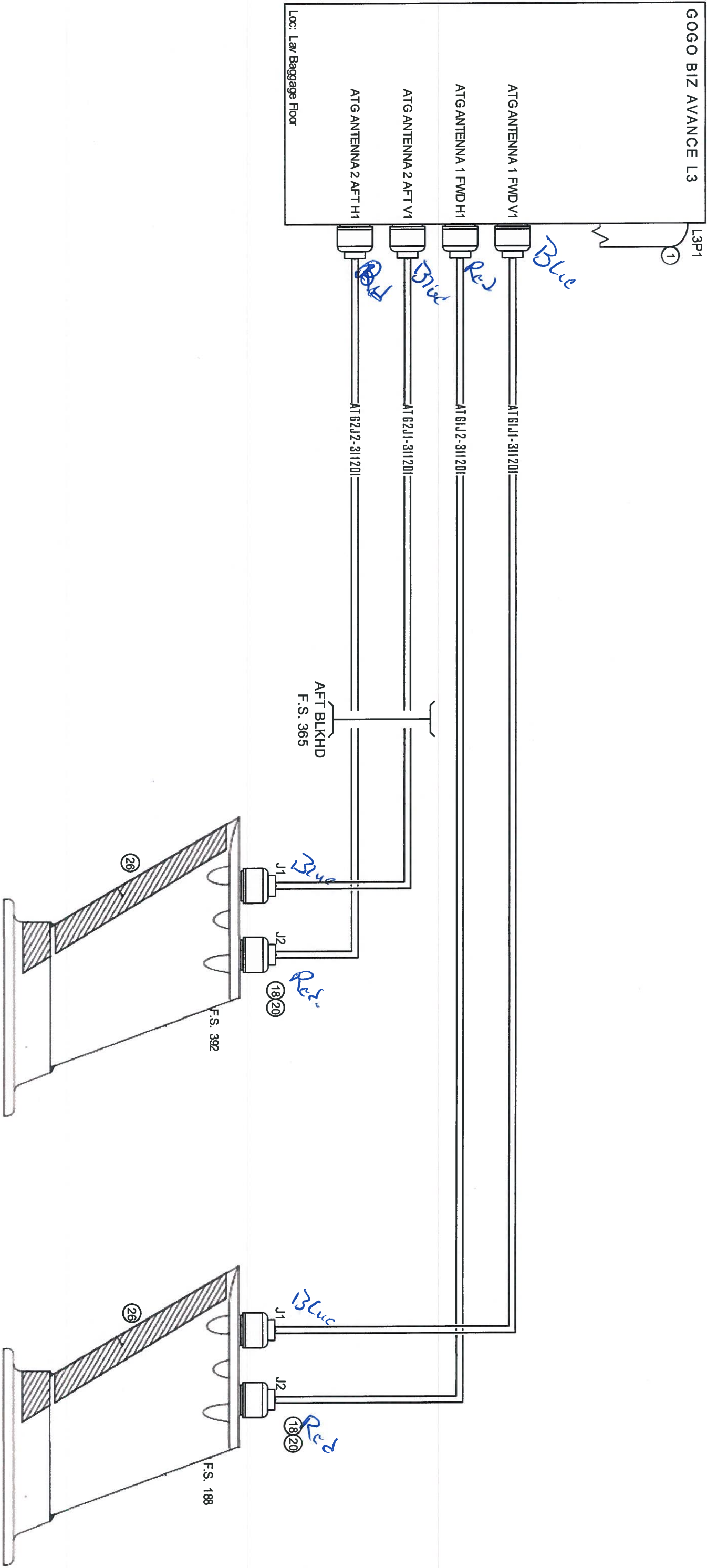
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Applicable to Avance L5/L51 installations ONLY.

Silverhawk Aviation Inc.		Silverhawk Aviation Inc.	
KLNK 1751 West Kearney Ave. Lincoln, NE 68524		KLNK 1751 West Kearney Ave. Lincoln, NE 68524	
DATE: 5/17/2017		DATE: 5/17/2017	
ENGINEER: K. OWEN		ENGINEER: K. OWEN	
CHECKED: 3/8/2018		CHECKED: 3/8/2018	
APPROVED:		APPROVED:	
Rev. C		Rev. C	
CRS# YOSR759U		CRS# YOSR759U	
SHEET: 7 of 8		SHEET: 7 of 8	
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Rev.	Revision Note:	Date:
C	Updated 3A Antenna connection hardware and production of BU	10/19/2018



Applicable to Avance L3 Installations ONLY.

Silver Hawk		Silverhawk Aviation Inc.	
KLNK 1751 West Kearney Ave. Lincoln, NE 68524		KLNK 1751 West Kearney Ave. Lincoln, NE 68524	
DATE:	5/17/2018	TITLE:	GOGO AVANCE L3/LS/LSI IN-FLIGHT ENTERTAINMENT AND WIFI CONNECTIVITY SYSTEM.
ENGINEER:	WENDELL	CHECKED:	K. OWEN
APPROVED:		Rev.	C
DWG NO. 17-23089-1		CRS#	YQSR759U
SHEET: 8 OF 8			

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